

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P382791

Luminaire Tested: **GLEON-SA1C-735-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382791  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1C-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6941 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

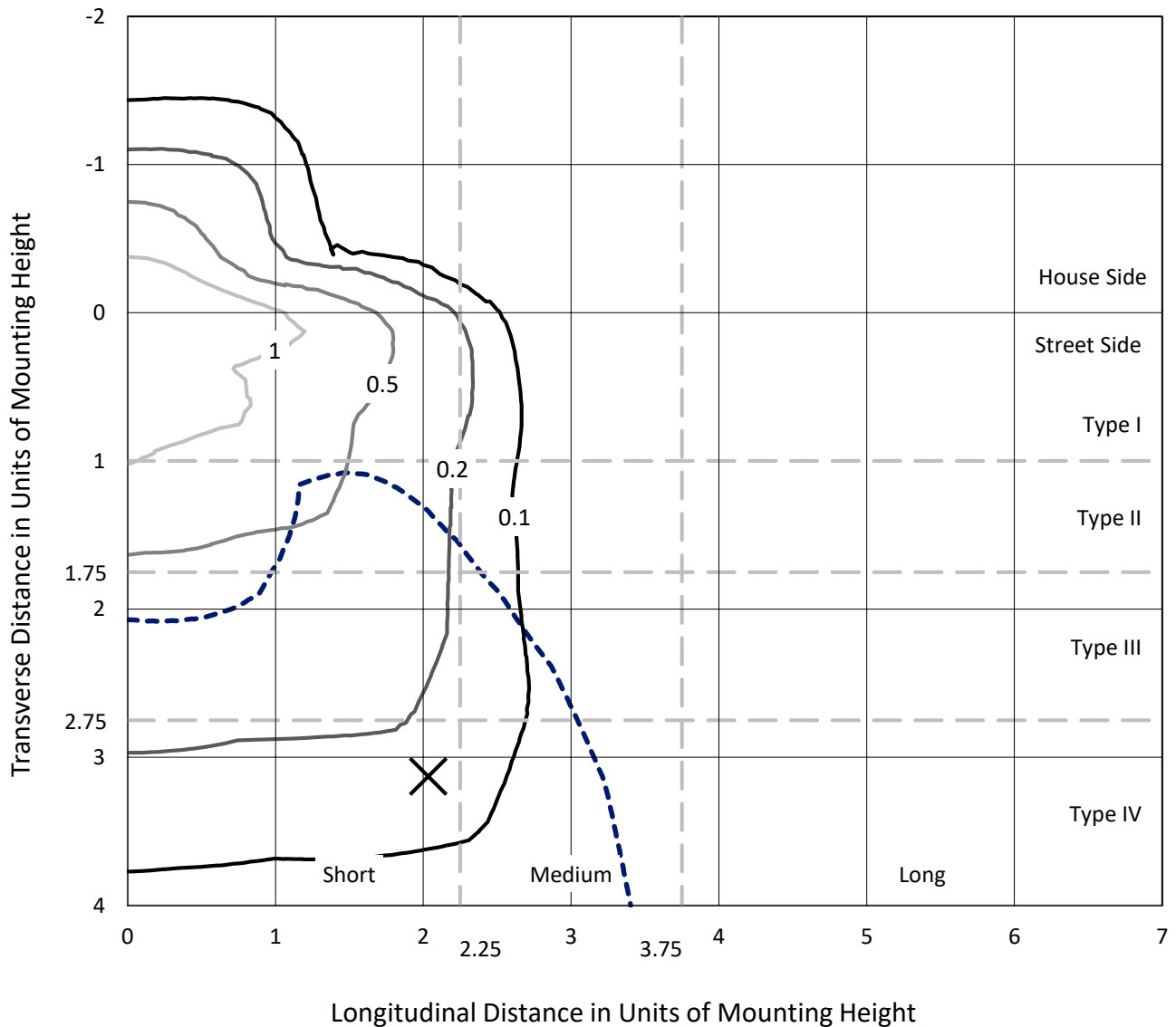
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

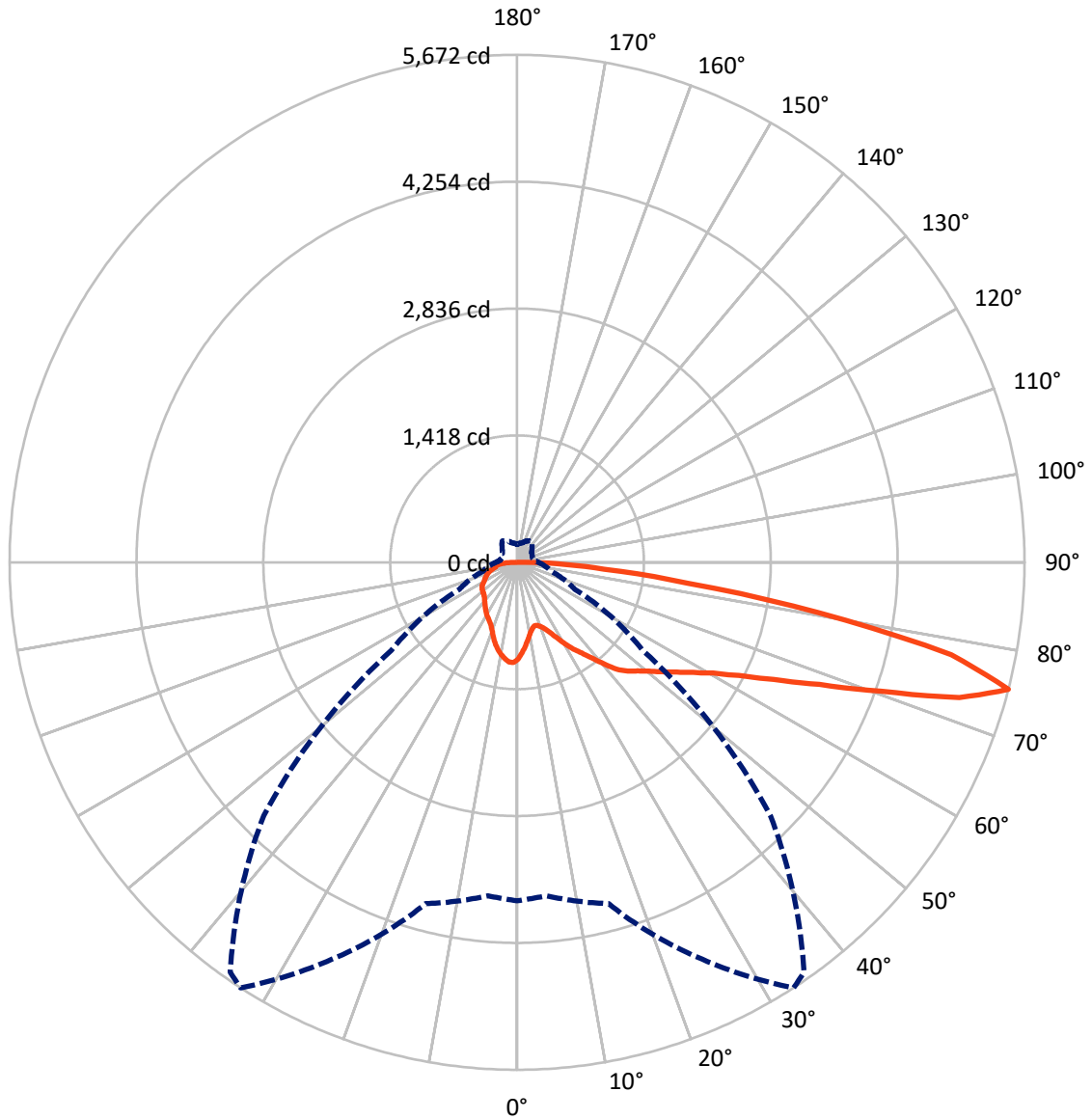
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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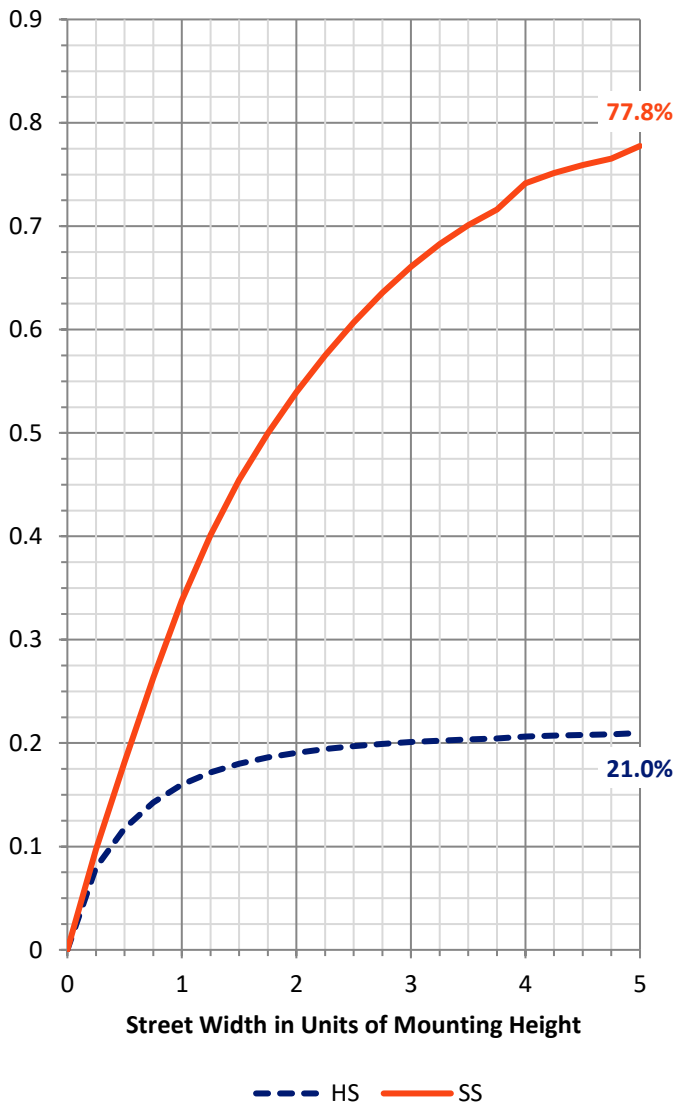
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1490.4	0.0	1490.4
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	5450.5	0.0	5450.5
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	6941.0	0.0	6941.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	1.4
10°-20°	265.7	3.8
20°-30°	434.0	6.3
30°-40°	646.3	9.3
40°-50°	927.0	13.4
50°-60°	1272.6	18.3
60°-70°	1593.3	23.0
70°-80°	1441.3	20.8
80°-90°	262.5	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6941.0	100.0
0°-180°	6941.0	100.0

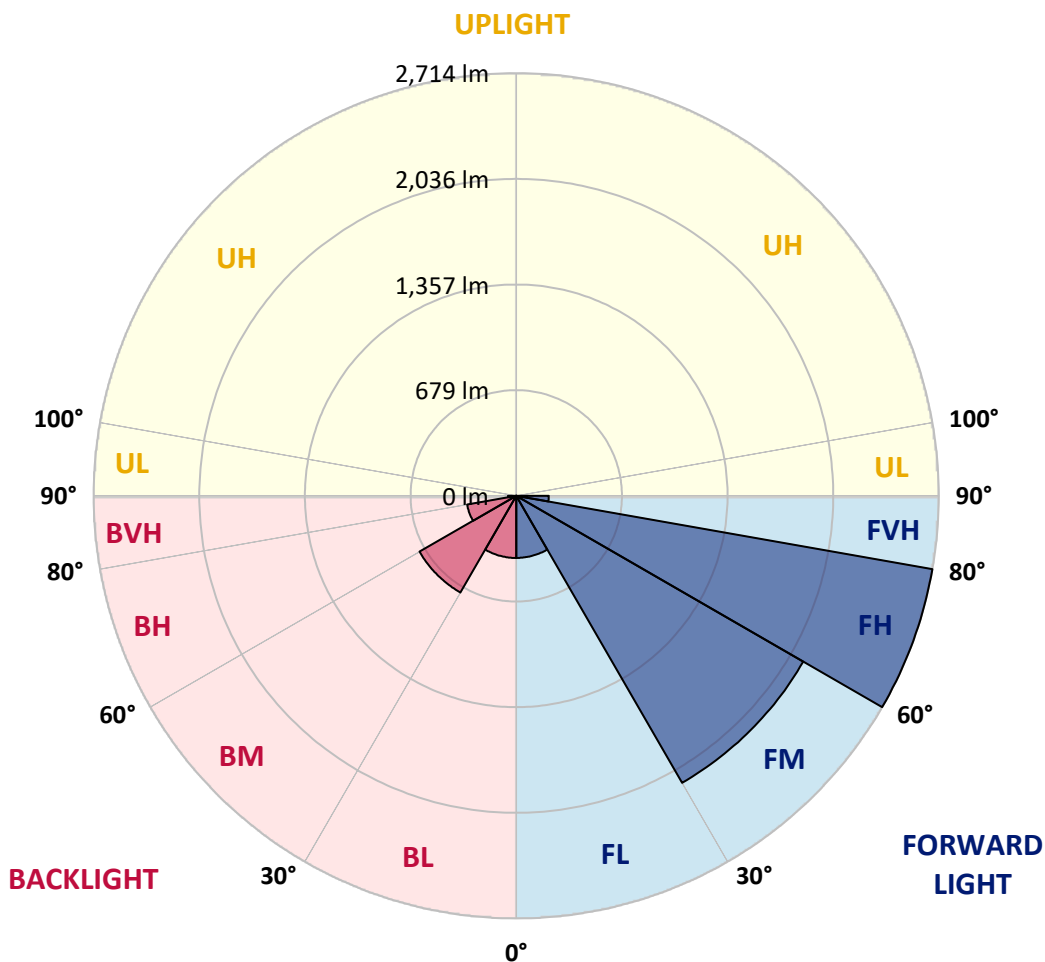


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	398.7	5.7			
FM (30°-60°)	2128.6	30.7			
FH (60°-80°)	2714.2	39.1			G2/5000
FVH (80°-90°)	209.1	3.0			G2/225
BL (0°-30°)	399.2	5.8	B1/500		
BM (30°-60°)	717.3	10.3	B1/1000		
BH (60°-80°)	320.5	4.6	B1/500		G1/500
BVH (80°-90°)	53.4	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9
2.5°	1007.5	1003.6	1010.8	1011.8	1018.0	1020.4	1029.1	1042.5	1053.5	1066.2	1077.7
5°	916.1	913.5	923.5	930.7	944.4	950.2	970.6	999.1	1024.5	1053.3	1079.4
7.5°	829.4	827.9	839.1	855.4	871.3	879.2	914.4	956.0	998.3	1044.9	1084.9
10°	756.2	755.8	766.5	782.6	805.8	814.7	860.3	915.0	974.4	1038.4	1094.3
12.5°	715.2	716.9	721.9	735.4	756.9	765.8	816.4	880.6	954.3	1036.3	1107.9
15°	725.3	727.9	719.2	718.8	734.2	741.1	788.6	856.2	939.8	1039.8	1127.8
17.5°	768.2	768.7	745.9	731.5	740.9	744.5	779.9	842.3	931.5	1048.0	1152.8
20°	828.6	827.4	787.2	763.1	768.2	769.2	792.2	842.5	930.7	1062.2	1185.1
22.5°	908.7	899.8	845.7	813.1	811.8	810.4	823.6	860.3	941.3	1085.2	1223.8
25°	1013.2	1004.9	930.2	885.7	876.1	872.5	874.4	898.1	962.2	1109.8	1266.9
27.5°	1129.5	1114.9	1043.0	979.9	960.0	954.9	943.5	951.6	984.9	1133.6	1318.2
30°	1226.8	1218.9	1156.1	1081.3	1057.8	1050.6	1020.4	1011.6	1017.8	1165.9	1383.0
32.5°	1281.3	1276.0	1237.8	1177.5	1155.7	1145.5	1102.9	1085.2	1070.5	1217.0	1470.7
35°	1347.2	1343.9	1320.8	1277.0	1244.5	1234.0	1201.0	1182.5	1144.9	1287.3	1584.1
37.5°	1431.1	1427.5	1428.0	1392.5	1353.9	1344.1	1322.2	1302.9	1241.2	1379.5	1707.3
40°	1526.1	1519.1	1516.5	1514.8	1490.4	1484.8	1473.3	1447.0	1362.1	1489.8	1828.9
42.5°	1669.0	1644.3	1591.5	1611.4	1635.6	1632.7	1642.1	1604.2	1496.3	1620.3	1947.6
45°	1806.8	1766.3	1675.2	1679.5	1732.5	1748.6	1818.6	1791.7	1641.9	1763.2	2070.4
47.5°	1869.6	1839.0	1761.6	1761.7	1814.3	1847.6	2001.1	1981.9	1794.8	1925.5	2220.2
50°	1939.9	1909.2	1839.7	1865.8	1911.6	1947.1	2177.2	2167.4	1940.4	2103.2	2399.8
52.5°	2016.6	1964.6	1920.5	1967.2	2031.5	2072.7	2353.7	2326.8	2073.9	2282.0	2606.2
55°	2017.5	2003.4	2037.0	2071.3	2167.4	2218.0	2538.6	2467.6	2182.8	2457.8	2774.2
57.5°	2132.4	2109.4	2180.6	2196.4	2322.1	2379.2	2722.4	2590.1	2293.6	2592.5	2864.9
60°	2284.4	2264.8	2323.0	2364.7	2513.4	2589.6	2918.8	2716.0	2380.6	2694.2	2860.6
62.5°	2546.9	2524.7	2523.9	2582.4	2782.6	2871.4	3139.1	2839.5	2415.1	2714.3	2738.6
65°	2931.3	2895.8	2828.9	2856.8	3154.5	3243.0	3385.4	2928.9	2369.6	2606.5	2424.2
67.5°	3305.3	3304.1	3221.9	3279.0	3645.5	3716.5	3665.9	2937.7	2227.3	2230.7	1866.5
70°	3678.1	3683.0	3669.0	3867.6	4309.0	4382.8	3964.7	2818.6	1907.8	1610.9	1118.2
72.5°	3973.5	3972.3	4042.4	4554.2	5169.9	5153.4	4216.4	2457.5	1369.7	869.6	534.4
75°	3782.2	3740.4	3949.1	4894.2	5671.7	5591.0	4002.3	1714.2	710.9	395.8	287.8
77.5°	2466.9	2506.4	2812.6	4043.1	4961.1	4862.8	2936.3	799.8	335.0	259.6	208.6
80°	893.4	935.1	1317.0	2290.2	3418.0	3401.9	1445.9	328.7	226.6	196.1	152.0
82.5°	307.4	322.7	519.5	1017.1	1929.8	2001.7	544.0	186.8	164.7	139.1	104.1
85°	120.6	138.1	237.6	489.3	973.5	980.6	220.3	111.7	114.6	91.1	57.1
87.5°	45.8	55.6	113.6	227.3	444.5	408.3	78.9	53.2	65.2	54.2	27.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9
2.5°	1086.6	1091.6	1102.2	1109.4	1117.0	1119.2	1120.2	1122.0	1124.0	1123.3	1123.5
5°	1093.3	1103.1	1120.2	1127.4	1130.7	1126.9	1119.4	1113.5	1109.1	1106.8	1106.0
7.5°	1104.3	1118.2	1136.5	1135.3	1127.5	1110.6	1091.4	1077.0	1065.0	1060.7	1058.3
10°	1119.0	1135.3	1147.9	1134.3	1112.0	1082.6	1053.8	1031.4	1013.4	1006.5	1005.3
12.5°	1137.7	1154.2	1156.6	1127.5	1090.7	1050.4	1011.3	981.9	954.9	946.4	944.4
15°	1161.9	1177.5	1162.6	1115.8	1064.3	1010.1	959.5	919.4	891.2	880.6	876.8
17.5°	1187.3	1202.2	1163.8	1096.4	1029.7	962.4	898.9	857.9	825.5	813.2	811.8
20°	1217.7	1224.4	1158.8	1068.6	982.3	900.5	833.6	795.1	777.7	769.2	768.2
22.5°	1255.4	1248.2	1147.3	1030.9	922.1	829.1	774.7	756.7	752.4	750.5	751.2
25°	1295.2	1273.1	1130.2	981.9	846.1	757.6	731.5	736.6	742.3	741.6	741.6
27.5°	1339.1	1298.6	1104.1	916.6	761.9	699.1	702.3	720.7	729.3	729.1	728.8
30°	1395.4	1327.3	1070.7	838.2	683.3	657.9	676.9	699.4	711.1	710.7	710.9
32.5°	1464.7	1358.9	1025.4	750.6	626.5	627.5	649.3	671.6	685.2	684.0	684.3
35°	1545.7	1394.4	964.1	664.4	588.8	603.3	620.5	636.1	649.0	647.3	645.7
37.5°	1633.9	1429.2	882.5	587.2	558.2	580.7	595.1	597.7	603.7	599.4	596.3
40°	1717.9	1455.8	777.6	523.9	527.3	561.5	570.9	560.3	549.5	548.1	543.7
42.5°	1791.0	1464.7	671.4	473.3	494.7	541.4	547.1	525.1	505.6	496.5	492.7
45°	1868.2	1467.8	572.3	430.8	463.3	523.4	529.6	500.1	472.8	453.1	446.7
47.5°	1969.1	1490.4	495.3	399.4	439.2	511.4	520.3	480.2	444.7	416.7	410.7
50°	2101.3	1534.9	432.8	375.5	423.7	503.5	513.6	460.8	421.7	387.9	381.9
52.5°	2248.0	1575.9	382.2	356.0	408.6	489.6	504.9	447.0	400.2	361.3	354.8
55°	2350.6	1544.5	341.4	335.9	388.9	469.7	493.0	435.1	369.3	335.5	329.7
57.5°	2370.2	1437.1	310.5	315.0	365.2	444.7	474.5	409.0	352.4	324.2	318.1
60°	2316.6	1287.5	287.5	295.9	339.7	413.3	440.0	390.6	336.4	312.2	307.1
62.5°	2181.6	1134.3	270.4	278.6	316.0	381.5	418.4	371.1	320.1	298.5	293.4
65°	1908.9	952.3	254.1	263.3	293.9	353.9	399.0	353.1	304.1	287.5	282.6
67.5°	1440.9	713.3	238.8	247.0	274.2	330.0	377.8	335.5	288.4	277.9	272.1
70°	848.5	446.7	221.3	229.9	253.7	305.0	355.3	316.0	269.0	264.2	256.8
72.5°	394.9	268.8	201.4	209.8	227.8	271.6	326.3	290.5	246.0	235.4	225.3
75°	235.7	196.6	177.9	185.4	198.0	236.1	289.9	264.7	224.1	210.3	199.7
77.5°	176.2	150.4	152.0	159.9	170.2	206.7	256.8	244.3	207.4	196.6	189.4
80°	126.9	114.1	124.0	132.6	143.4	188.0	246.0	225.8	187.5	173.1	166.4
82.5°	84.7	82.0	93.2	102.1	112.7	164.5	231.1	197.8	160.1	142.0	127.1
85°	46.8	49.4	62.8	66.7	75.7	115.8	189.4	158.9	120.6	97.1	92.8
87.5°	19.4	22.8	33.8	32.6	40.2	69.0	124.6	95.9	76.8	57.3	44.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)